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ACCESSION NUMBER: 113:173653 CA
TITLE: Polymerizable dye for coloring ***eyeglass***
lenses, manufacturing of colored ***eyeglass***
lens materials therefrom and colored ***eyeglass***
lens materials
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PATENT ASSIGNEE(S): Meicon Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 16 pp.
CODEN: JKOKAF
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LANGUAGE: Japanese
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PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 01280464	A2	19891110	JP 1988-111300	19880506
JP 07028911	B4	19950405		
PRIORITY APPLN. INFO.:			JP 1988-111300	19880506
GRAPHIC IMAGE:			Diagram(s) available in offline prints and/or printed CA Issue.	

ABSTRACT:

The title dyes have the general structure I [one of R1-7 = (meth)acryloyloxy, vinyl, allyl, while others = H, Me, Et, MeO, EtO, OH, Cl, Br; R8 = O, Q1, Q2, Q3, 1- or 2-anthracenyl; R9-13 = H, Cl-18 alkyl, MeO, EtO, OH, NO2, Cl, Br; R14-27 = H, Cl-12 alkyl, MeO, EtO, OH, Cl, Br; R28-36 = H, Cl-18 alkyl, Me, EtO, OH, NO2, Cl, Br]. .alpha.-Naphthol was coupled with diazotized aniline then esterified with methacryloyl chloride to give 1-(phenylazo)-4-methacryloyloxynaphthalene which (0.005 part) was polymd. with tris(trimethylsiloxy)silylpropyl methacrylate 71, hexafluoroisopropyl methacrylate 29, ethylene glycol dimethacrylate 6, methacrylic acid 4.8, and N-vinyl-7-pyrrolidone 6.2 parts in the presence of 0.20 part azobis(dimethylvaleronitrile) in a glass test tube at 35.degree. for 40 h then heated over 12 h to 50-110.degree. to give a rod which was cut to 12.5 mm diam. and 0.5 mm thickness and polished to give a level ***yellow*** transparent specimen showing good durability in acid, alkali, boiling, EtOH extn., aq. NaClO extn., H2O2 extn., and light tests.